

Abstract

1 The illustrative embodiment of the present invention is a vertical-mode, free-free
2 beam resonator, and micromechanical circuits that include one or more such resonators.
3 In accordance with the illustrative embodiment, the resonator comprises a movable
4 beam that overlies a drive electrode. The movable beam is supported by a plurality of
5 supports, the length of which is substantially less than one-quarter of a wavelength of
6 the resonant frequency of the resonator.